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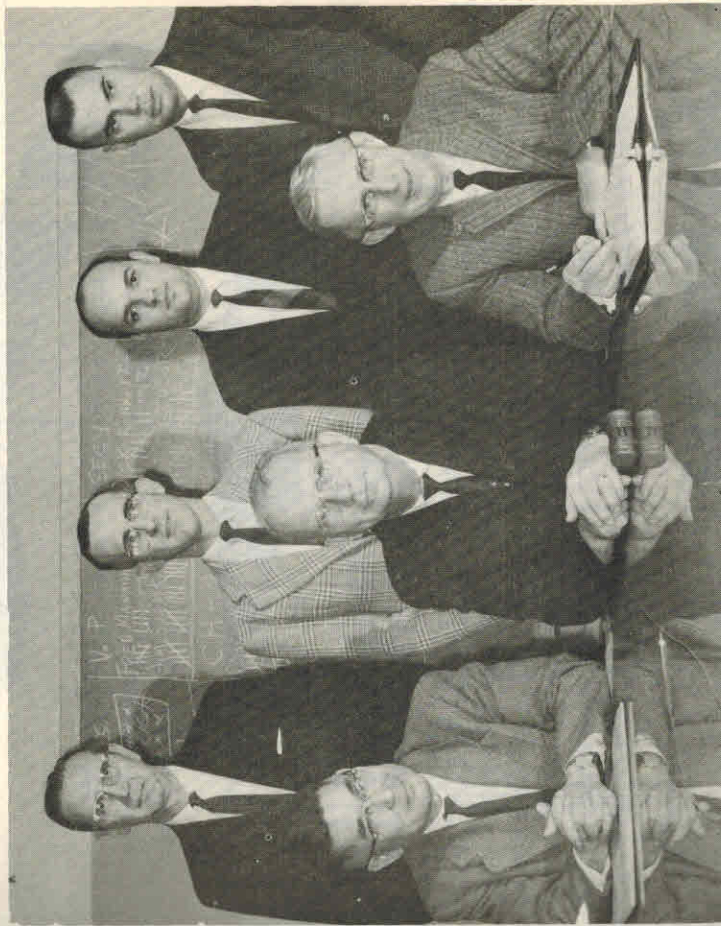
# W9KJF Amateur

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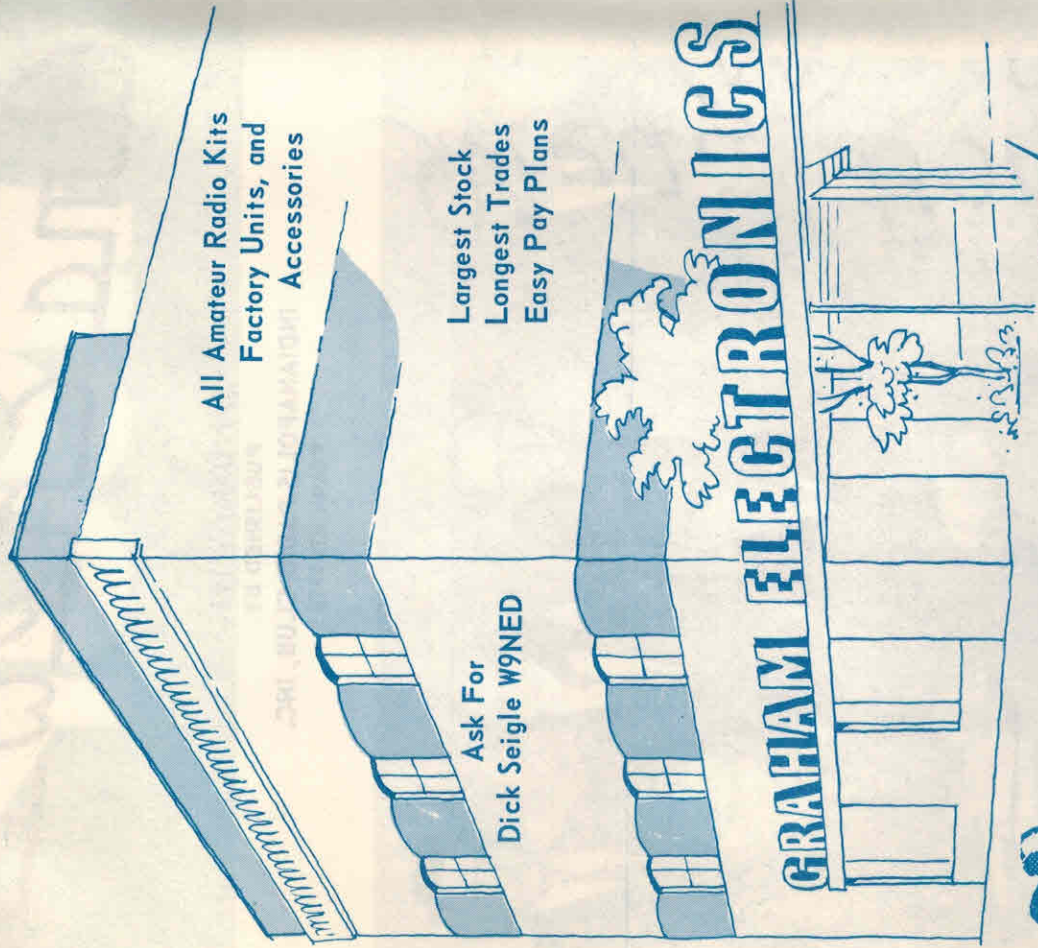
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The Indianapolis Radio Club meets on the second and fourth Fridays of each month except July and August in the Indianapolis Park Board Building at 29th and Harding Streets. Meetings start promptly at 8 p.m. EST.

## AMA-CHEWER STAFF

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Ama-Chewer is published monthly by and for the I.R.C. and all amateurs in the Indianapolis area. Non-members may subscribe for \$1.00 a year.

Publication is on the third Friday of each month, with all news items and ads due no later than the first Friday of each month.

Ham Ads (5 line limit) are free to members and subscribers. Others may submit ads for 50 cents each.

Ama-Chewer welcomes the forwarding of information on coming events and activities of other clubs for publication.

\*\*\*\*\*



Our cover attraction this month consists of the shining faces of our new officers, elected December 13. They are:

President	Jerry Lucas, W9APJ
Vice-President	Jim Sugioka, W9CKB
Secretary	Ward Studor, WA9CCX
Treasurer	Pat Husk, K9EUQ
Chief Op.	Dick Kinnett, K9VIE
1st Director	Alvey Pittman, W9JJC
2nd Director	Marshall Lincoln, K9KTL

Top Row l to r: Pittman-Kinnett-Husk-Lincoln  
Bottom Row: Sugioka-Lucas-Studor

\* \* \* \* \*

#### THE PRESIDENT'S FREQUENCY

The past year sure has gone fast, maybe because I've been busy. I've enjoyed being president of the IRC, and I hope the experience hasn't been too hard on you.

Some of the goals I had in mind when taking office have been accomplished; others have not. For those which were accomplished, I thank very much the fellow club members who have helped. For those not accomplished, I take sole blame for not pushing hard enough in the right direction.

But regardless of what goals were actually reached, the experience I shall always recall about the past year is the friendly, helpful spirit of the board of directors and other club members who participated in club activities. Each of you have given more than you received in making the IRC a worthwhile part of this community. Just about every occupation in our city is represented in the IRC, with a single unifying goal: the enjoyment and furtherance of amateur radio. If every club in the land had as many active, talented and enthusiastic members as the IRC, amateur radio would be an even stronger element in our society.

It has been an honor and a pleasure to serve as your president. Thanks to each of you for your help this year. Show your new president the support you have shown me, and he'll be a mighty happy fellow.

73 DE K9KLT

The IRC has a chance to play an important part in an upcoming public service project which should be a lot of fun plus a chance to show non-hams the value of ham radio.

An "airmarking project," by which large signs designating many of the state's cities and towns are painted on roofs of buildings as an aid to pilots, is underway. The active participants are the Ninety-Nines (international women's pilot organization), the Air Route Traffic Control Association, and the Jaycees. In April, the Ninety-Nines will have a statewide "Air Lift" to raise money for the project by giving airplane rides in return for donations.

The Ninety-Nines came to the IRC asking for hams to supply communications between the airports involved to help the gals get their planes and pilots to the right spots at the right time of the day of the air lift. Although the big day will be in April, there will be at least one trial run, on a smaller scale, beforehand, and probably some miscellaneous traffic to be handled by hams before then in preparation for the main event.

This is too big a job for the IRC alone, but members have said they'd like to take on the coordinating job as a club project. Probably the bulk of the traffic will be on six and two meters, with both mobile stations and base stations all over the state involved. Lower frequencies may also be used. Regardless of your operating interests, there's a place in this project for YOU!!

There will be a trial run, for organizational purposes, on 50.55 mc. on Dec. 29 at 2:00 PM, EST. The net control station will be in Indianapolis. Later on, as plans progress, there probably will be a committee of IRC members, representing various bands and modes, set up to handle future operations.

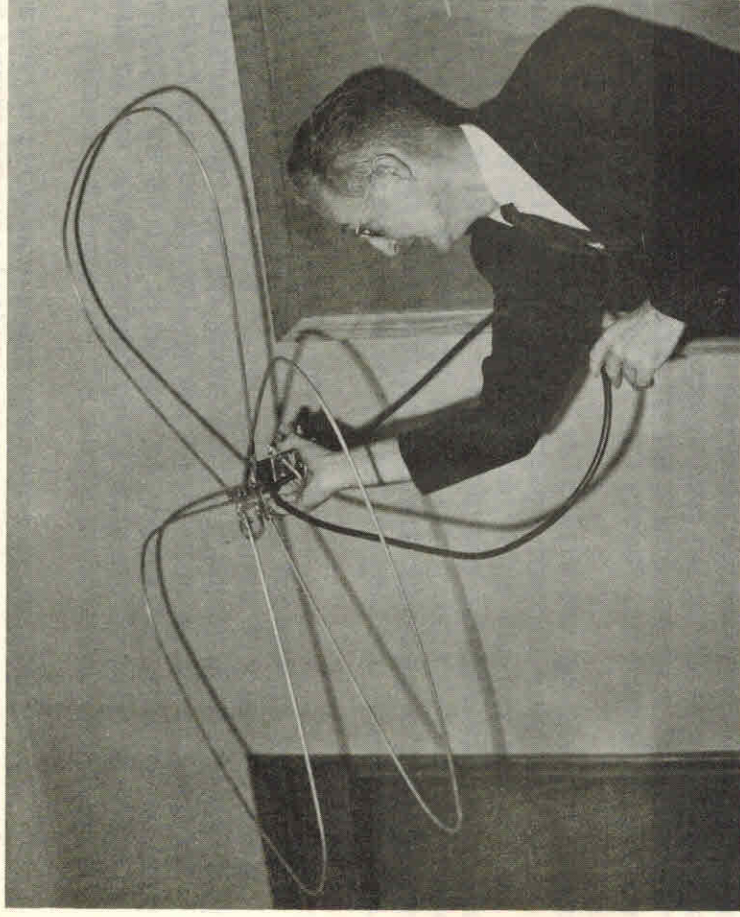
This project should be a very good exercise for hams themselves in handling communications, as well as a good way to demonstrate our usefulness to the general public. We must organize well and carefully follow instructions to do a good job. If we fail to do this, we'll look like a bunch of dopes in the eyes of some very capable people.

Let's all do our share for the IRC and for amateur radio.



## PROGRAM REVIEW

By Jerry Lucas W9APJ



November 8  
After the business meeting, an open forum on Incentive Licensing was held in lieu of two previously scheduled programs, both of which had been cancelled. The meeting was heated, but very orderly--that is, right up to the closing moments, when the President found it necessary to take drastic steps to preserve the decorum of the meeting. (Note the additional masking tape on the plate glass table top next meeting. "The meeting came to a shattering climax," said Tom as he went all to pieces.)

November 22  
All eligible Old Timers present were awarded their Pioneer Award ash trays. Alvey Pittman, W9JJC, MC'd the ceremonies and presented, among others, a special award to D. J. Angus, W9CYQ, in recognition of his unceasing help and service to the IRC over the years.

The program was a talk by Max Galloway, K9OXA, on "Antennas and Transmission Lines." (See picture at left)

Max first explained what an antenna was by saying that any conductor whose length is appreciable compared to a half wave length can be considered an antenna and went on to explain how velocity factor and capacitive end effect affect the actual length of the antenna.

He explained the importance of radiation resistance of an antenna and gave examples of this resistance of several antenna configurations.

Any gain derived from an antenna, we were told, is achieved by compressing the vertical pattern or narrowing the horizontal pattern.

Max then went into some detail or various matching systems, explaining delta match, gamma match, tee match, inductive coupling and a hairpin loop match. Through the courtesy of Hy Gain, he was able to show several antennas and feed lines. He explained that two wires closer together than 1 percent of a wavelength and fed out of phase will not radiate appreciably and may be used as a feed line. He stated the velocity factor of RG-8 is approximately .66 and that of open wire line could be as high as .98. This should be considered when determining line lengths. Max gave figures on losses due to attenuation in feed lines, starting with twin lead at 9 Db per 100 feet down to open wire at .18 Db per 100 feet.

Max noted that signal loss due to a 3:1 SWR amounts to only .9Db, and that nothing can be done at the input end of a radiating system to improve the SWR. Pruning a line will help transmitter loading, and a bridge, to give a true indication, should be a half wave or multiple of a half wave length from the transmitter.

He explained how to check for sheath resonance, and cautioned to always check coax line with a dummy load before erecting an antenna. He also showed several SWR bridges and antenna phase detectors and told how to check ground resistance.

Our thanks to Max for an excellent program.



A lot of kilocycles have gone over the feedlines, so to speak, in the past year. What all happened at the IRC?

Well, the year's programs started with a talk on transistors given by Don Holt, W9FWH, Anderson, the SCM of Indiana. Don's illustrated talk was an abbreviation of a much longer presentation prepared for employees at Delco-Remy, where he works. Other programs early in the year included a demonstration of uses of an oscilloscope by W9APJ and W9JJC. Dick Judkins told us how to use solid state components in our ham gear. Bob Kryter was, as usual, a fascinating speaker with "Challenge of the Space Age." Walt Smith, WA9BHV, gave an entertaining talk on design and operation of microwave equipment.

Old Timers Night really packed the halls to see "The Story of DX" from the Antique Wireless Association and hear a fascinating tape-recorded visit with D. J. Angus, 9CYQ, and Noble Watson, 9WE, on the "good old days" in Indianapolis radio. W. C. Baker, W9HX, Evansville, who went on the air in 1908 when he was 11 years old had the longest history of ham service of all present.

Federal Aviation Agency officials from Weir Cook Airport told us of the workings of their many radio and radar facilities, then demonstrated the whole works in a tour of the airport the next day. The annual club auction, a spring regular, was well attended as usual, with many bargains. Dick Kinnett, K9VIE, won the home brew night prize with a fancy phone patch, and then spent many busy hours organizing a successful Field Day operation at the Friendswood Golf Course operated by Jim Rees, K9YKH.

Jim got some special recognition a little later when the Indiana Radio Club Council selected him as "Outstanding Amateur of the Year" for his work at the Blind School.

Fall programs included a demonstration of amateur TV by Fred Manning, W9VPN, and Walt Smith, and a tour of WFBM studios and TV transmitter, led by Bert Brouse, K9JSF. A special auction raised additional money for the club's donation to the ARRL Building Fund. Added to what had been raised with the 50-50 Club, it came to an even \$100.00.

There's still time to earn more Brownie points with visits to fellow ham's shacks. The Eyeball QSO contest, intended to get local hams better acquainted, ends Dec. 31. The host ham gives the visitor a QSL for the visit. The ham with the most QSLs wins a station clock, Dymo tape writer, or Heath dummy load--the winner may take his choice. Send your eyeball QSLs to K9KTL immediately after Dec. 31, or bring them to the Jan. 10 meeting.

\* \* \* \* \*

### SUPPORT YOUR LEAGUE

The American Radio Relay League is your voice in national and international ham affairs, in addition to being an organization furnishing numerous worthwhile services direct to hams. It deserves your support. You can help support the League and save a few shekels yourself by paying your League dues at a reduced rate at the same time you pay your IRC dues.

\* \* \* \* \*

Electronic Design News reports hams from Electro Optical Systems Radio Club, Pasadena, Calif., set a record with a 118-mile QSO using an audio modulated helium neon laser. Output was 125 microwatts. Beam width of the laser was 150 ft. at the 118-mile distance. Alignment of transmitter and receiver was done with a 6-meter system and a 300,000 CP aircraft flare.

\* \* \* \* \*

### GRAHAMS SPECIALS OF THE MONTH

COLLINS 75S1.....	REAL CLEAN.....	\$425.00
Collins KWM 2 .....	REAL CLEAN.....	\$895.00
SWAN SW 175.....	.....	\$185.00
Johnson Invader 200 .....	.....	\$455.00
HALLICRAFTER HT-37.....	.....	\$395.00
Hallicrafter HT 32-A.....	CLEAN.....	\$450.00
HAMMARLUND HQ 170C.....	.....	\$275.00
Central Electronics 10-A .....	.....	\$ 34.50
HALLICRAFTER SR 34AC.....	.....	\$233.00
Hallicrafter SX 101 Mark III.....	.....	\$250.00
MOSLEY CM 1 Receiver.....	.....	\$125.00
Knight T-150 Xmtr. ....	Real Clean.....	\$119.00



Special Bulletin Number 634 Nov. 14, 1963  
Effective immediately ARRL announces the availability of extra tape sent code practice from WIAW. Speeds of 10, 13 and 15 WPM will be covered each day during the period of 0030 to 0100 GMT just preceding the 0100 GMT bulletin. The full schedule covering all code practice and bulletin periods will appear in December QST. Copies of the complete WIAW operating schedule are available upon request from the Communications Department, 225 Main Street, Newington, Conn.

Official Bulletin Number 926 Dec. 5, 1963  
All amateurs planning to participate in the ARRL January VHF Sweepstakes are reminded that log forms are available free on request from the ARRL Communications Department. Please specify the number of reporting sheets desired. Page 28 of December QST gives full details on this top VHF operating activity. Be sure you are ready to help your club compete for the gavel in the VHF Sweepstakes, January 4 and 5.

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## THIS MONTH'S PUZZLE

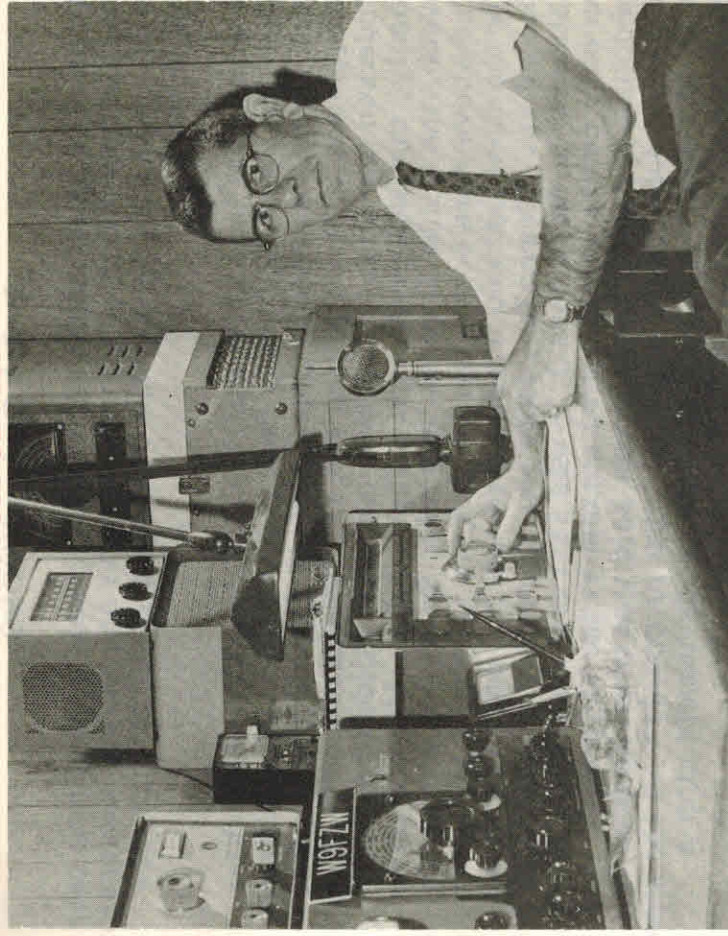
Two known and two unknown resistors are connected in series across the output of a power supply. Voltage checks are made as indicated. What is the voltage across the supply? No pencil and paper required.



\* \* \* \* \*

## XYL CLUB

The regular monthly meeting will be Friday, Jan. 17, in the home of Mrs. D. M. Davis, 423 N. DeQuincy. Members will finish the ceramic project started at the Oct. meeting in Florence Lucas' home.



For this month's Ama-Chewer ham shack visit, we go to the home of John Jones, W9FZW, 3338 West New York.

John got his class B license in 1947 and his class A in 1950. His ham shack consists of a Viking II, HT-40 and NC-300. That's what he has on the air. Now, down in the basement is enough ham gear and test equipment to reach the E layer without even being turned on! Although his present on-the-air equipment is mostly commercial-made, John is an enthusiastic experimenter and home brewer and has the soldering iron burns to prove it. He has a home brew mobile transmitter, similar to the Palco, with a G-66 receiver in his car and has numerous portable and walkie-talkie type rigs on various bands.

John has been president, secretary, chief operator and program chairman of the IRC and is trustee and activities manager of the Central Indiana Mobile Radio Club. He is a former secretary of the Indiana Radio Club Council and was on the IRCC committee which got ham license plates approved for Indiana. He is an active member and Wednesday evening net control station operator for the Indiana Phone Net.



By Bob Caskey W9DNQ

A notice in Ama-Chewer noted that all ham transmitting gear must be registered by the owner or the one having possession of it. This was the wartime FCC requirement for ham gear not in use.

A picnic was held at Forest Park, Noblesville. Attending were Don, Ruth and Buddy Davis, Alvey and Esther Pittman, Jack Murphy and Bobby Mueller, Fred Manning et al, the Waggoners, Charlie Mitten and YF, the Geisendorffs, Tiny Anderson and family, Al Titus, his wife, Hildegard, and family, the Dickmeyers and Esther's folks, Mr. and Mrs. Webb, the Willie Keatons, and Mrs. Smoky Joe Armstrong. The above were active members of the 160 meter phone band for the most part and it was noted that not much rubber was burned up. (Remember, there was tire rationing before gas rationing in those days.) It was said that Don Davis won in an easy cantor at a shooting contest at the amusement park shooting gallery. 'Twas further said that when he tried to shoot the dubs how it was done, that he couldn't hit the broad side of a cow. Just goes to show, pride cometh after a success and goeth....etc.

At the above eatfest, 'twas noted that ICY (Al Titus) and YMV (LeRoy Waggoner) got behind a tree and talked WERS practically all the time except while the eating was in progress. JJC and VPN took movies of practically everybody and then let them in on the secret that they didn't have any film in their cameras.

\* \* \* \* \*

MERRY CHRISTMAS  
THE SALE IS ON !!

VAN SICKLE RADIO SUPPLY CO.

Gene - W9KJF

Chuck - K9UDW

'Tis the season to be jolly, etc. 'Tis also the season when some of the ham magazines print their annual indexes. A member has suggested a good year-end activity is to go through those indexes and look up some of the articles you may have passed by when the magazine was new, but now may have new interest. It's also a good way to refresh your memory on what has happened in ham radio in the past year.

\* \* \* \* \*

# OLD TIMERS, ATTENTION

There still are a few ash trays to be picked up by hams on the air in 1926 or before who attended the IRC Old Timers Night last June. W9JJC still has ash trays for W9AXH, 9CJA, W9PI, W9BZB, W9DMV, W9FKE, W9CUR, W9NPV, and W9TD. If these fellows or any of their cronies could pick up the ash trays at the next meeting, it would be appreciated. If you can't make it, call Alvey (AX 1-9252) and make arrangements to meet on a street corner sometime.

\* \* \* \* \*

# HAM-ADS

SX 101A new condition \$285. LA 400C linear 800 watts PEP 400 watts CW-AM \$125. Both \$375. 1200 V 500 ma power supply \$12.50. Ed Shively K9LNR WA 6-2755.

RME VHF 152A converter, converts 2, 6 and 10 meters to 40 meters, \$25. Curtis Hunter K9LVS AX 1-8513.

WANTED: to borrow..manual for HQ 140X .. W9JJC AX-1-9252

\* \* \* \* \*

# NEWS FLASH

Two pupils at the Blind School, Bruce LeMond, WA9CYG and Keith Reedy, WA9DRO, have received their General licenses. They had Technician licenses before, and are the first pupils to receive their General while still at the school. Congratulations, boys, on a job well done. And a tip of the hat also to the IRC members who have helped in their studies.



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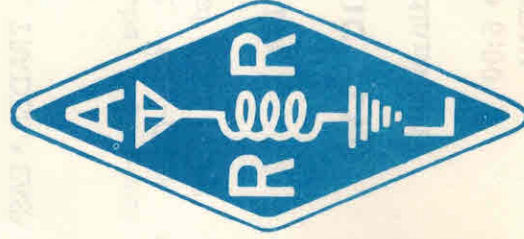
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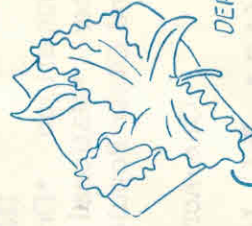
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